

## PATENT SPECIFICATION

DRAWINGS ATTACHED

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Int. Cl.:—B 32 b 21/14

## COMPLETE SPECIFICATION

### Improvements in or relating to Wood Panels and methods of preparing such Panels

We, AARONSON BROS. LIMITED, a Company incorporated under the laws of Great Britain, of Town Wharf, Rickmansworth, Hertfordshire, England, and ROBERT LANDES, a British Subject of the Red House, Hampstead Lane, London, N.6, England, do hereby declare the invention, for which we pray that a Patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to wood panels and methods of preparing such panels and more particularly to panels which may be immediately applied to a base surface, for example, a wall.

According to the present invention there is provided a panel for applying to a base surface, for example a wall, the panel comprising a sheet of wood veneer, a layer of rubber-based adhesive carried by the said sheet, and, superimposed on the layer of rubber-based adhesive, a strippable backing material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material.

The essential feature of the strippable backing material is that this shall be one to which the adhesive does not set or become permanently attached in any way. The preferred backing material based on paper is a silicone-impregnated paper and the preferred plastic backing material is polyvinylchloride film.

According to a feature of one embodiment of the present invention the layer of rubber-based adhesive is carried by the sheet of wood veneer by means of a sheet of paper which is adhesively secured to the sheet of wood veneer and which has the layer of adhesive on its exposed surface.

The sheet of wood veneer may be a wood veneer cut directly from the log of a tree or alternatively it may be a prefabricated wood veneer obtained by preparing a block of wood laminations and slicing a sheet of wood veneer from this block. The sheet of wood veneer so

prefabricated may simulate a straight grained wood or alternatively it may have a flower configuration.

The present invention also comprehends the method of manufacturing a panel according to the invention comprising the step of applying to a wood veneer the adhesive surface of strip-able material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material and carrying on one surface only a layer of a rubber-based adhesive.

The present invention further comprehends the method of preparing a panel comprising the steps of feeding a succession of sheets of wood veneer, feeding at the same rate sections of strippable backing material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material and having on one surface thereof a layer of rubber-based adhesive, bringing a sheet of wood veneer into contact with the adhesive surface of a section of strippable backing material, and pressing the wood veneer and the section of strippable backing material together to effect close contact over the whole surface thereof.

According to a further feature, the present invention also comprehends a method of preparing a panel comprising the step of applying to a sheet of paper, adhesively secured to a surface of a sheet of wood veneer, the adhesive surface of a strippable material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material and carrying on one surface only a layer of a rubber-based adhesive.

The present invention will be better understood from the following detailed description of preferred embodiments thereof and one method of manufacturing a panel according to the invention, which description is made, purely by way of example, with reference to the drawings accompanying the Provisional Specification, in which:—

Figure 1 shows a perspective view of one

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embodiment of a panel according to the invention,

Figure 2 shows diagrammatically a process of manufacturing a panel according to Figure 1, and

Figure 3 shows a sectional view of part of another embodiment of a panel according to the invention.

Referring first to Figure 1 of the drawings, there is shown a panel comprising a sheet 1 of wood veneer which is a prefabricated sheet of wood veneer exhibiting a straight grain. Attached to the sheet 1 by a layer of rubber-based adhesive 2 is a sheet 3 of a silicone-impregnated paper.

The panel comprising the sheets 1 and 3 joined by the adhesive layer 2 provides a panel which may be stacked along with many other similar panels without any adhesion occurring between the individual panels. However, the panels are such that the sheet 3 which presents a strippable backing material may be removed readily from the sheet 1 of wood veneer by peeling off a corner of sheet 3 as indicated by the reference numeral 4 in Figure 1 and then peeling the whole sheet 3 from the back of the wood veneer. This action exposes a surface of wood veneer having thereon a layer of adhesive 2 which is tacky and which will adhere to any base surface to which it may be applied. As an example of the use of the panels according to the invention the backing material of silicone-impregnated paper may be stripped therefrom and the panels applied to the walls of a room to give the appearance of a panelled room. Alternatively, the panels may be applied to furniture, for example the walls of a cupboard or the top of a table, to give the impression of a high quality wooden article.

The method by which panels according to Figure 1 may be prepared is indicated in Figure 2. A roll 5 of silicone-impregnated paper having a rubber-based adhesive on one surface thereof, is intermittently advanced by arms 6 which withdraw a predetermined length of the silicone-based paper from the roll 5. A cutting means, for example a knife 7, cuts a desired length of the adhesive covered paper which is then advanced by a conveyor belt 8 simultaneously with the feeding of a sheet of wood veneer 9 by means of an arm 10 and a chute 11 so that the sheet of wood veneer and the section of backing material comprising the adhesive-covered silicone-based impregnated material are fed together between pressure rolls 12 which ensure good contact between the wood veneer and the backing material. The product which is obtained from the pressure rolls 12 is fed to a guillotine 13 comprising two knives at right angles (only one of which is indicated in Figure 2) which clips the product to a desired size. As an alternative to the use of pressure rollers two plates may be used to bring the wood veneer into intimate

contact with the silicone impregnated paper by means of the layer of rubber-based adhesive or alternatively a press could be used.

Referring now to Figure 3 of the drawings, there is shown part of another embodiment of a panel according to the invention. Attached to one face of a sheet of wood veneer 14 by a layer of a setting adhesive 15 is a sheet of kraft paper 16. A layer of a rubber-based adhesive 17 is present on the exposed surface of the said sheet of paper 16 and a strippable backing material 18, which is polyvinylchloride film, is superimposed on the layer of rubber-based adhesive 17.

The embodiment of the invention, which is the panel comprised of the sheets and layers illustrated in Figure 3, may be manufactured by a process similar to that illustrated in Figure 2 either carried out in two stages or in a single stage. When the method is carried out in two stages, the sheet of kraft paper is adhesively secured to the sheet of wood veneer in the first stage and then, in the second stage, the sheet of wood veneer carrying the sheet of kraft paper adhesively secured thereto is in turn secured, through the face carrying the sheet of kraft paper, to the strippable backing material of polyvinyl-chloride by means of the rubber-based adhesive.

By the use of panels according to the invention it is possible for an individual to apply to the walls of his own house, sheets of wood veneer and so obtain a panelled appearance at a very low cost. The sheets of wood veneer may also be applied, if desired, to doors or to furniture.

#### WHAT WE CLAIM IS:—

1. A panel for applying to a base surface, for example a wall, the panel comprising a sheet of wood veneer, a layer of rubber-based adhesive carried by the said sheet, and, superimposed on the layer of rubber-based adhesive, a strippable backing material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material.

2. A panel according to Claim 1, wherein the layer of rubber-based adhesive is carried by the sheet of wood veneer by means of a sheet of paper which is adhesively secured to the sheet of wood veneer and which has the layer of adhesive on its exposed surface.

3. A panel according to Claim 1 or Claim 2, wherein the strippable backing material is polyvinylchloride film.

4. A panel for applying to a base surface, for example a wall, substantially as hereinbefore described.

5. A method of preparing a panel according to Claim 1 comprising the step of applying to a wood veneer the adhesive surface of strippable material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material and carrying on one surface only a layer of a rubber-based adhesive.

6. A method of preparing a panel according

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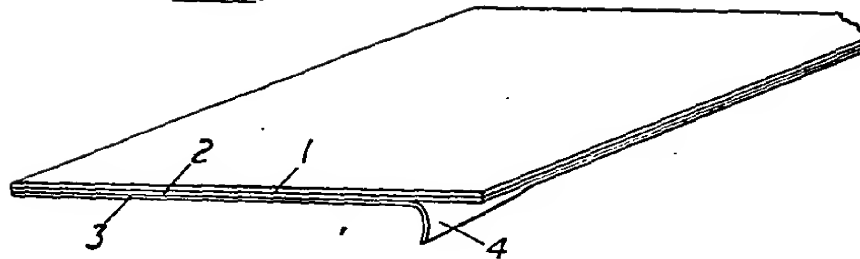
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- to Claim 1 comprising the steps of feeding a succession of sheets of wood veneer, feeding at the same rate sections of strippable backing material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material and having on one surface thereof a layer of rubber-based adhesive, bringing a sheet of wood veneer into contact with the adhesive surface of a section of strippable backing material, and pressing the wood veneer and the section of strippable backing material together to effect close contact over the whole surface thereof.
- 5 7. A method of preparing a panel according to Claim 1 comprising the step of applying to a sheet of paper, adhesively secured to a surface of a sheet of wood veneer, the adhesive surface of a strippable material consisting of either silicone-impregnated paper, or oil-impregnated paper or plastic material and carrying on one surface only a layer of a rubber-based adhesive. 20
- 10 8. A method of preparing a panel substantially as hereinbefore described with reference to the drawings accompanying the Provisional Specification. 25

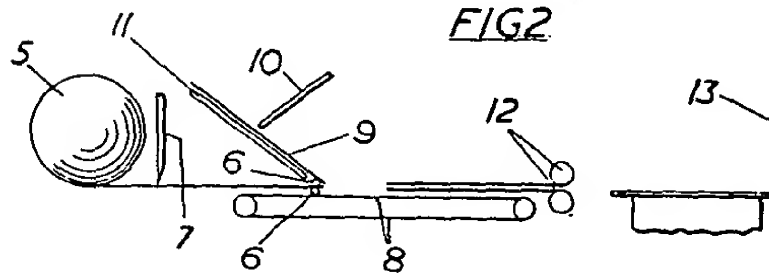
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*FIG1*



*FIG2*



*FIG3*

